Case Report

Efficacy of Myofascial Unwinding and Myofascial Release Technique in a Patient with Somatic Symptoms – A Case Report

Manu Goyal, Kanu Goyal, Manish Bathla¹, D. Kanimozhi, D. Narkeesh²

ABSTRACT

Depression is an aversion to activity disorder which could lead to somatic dysfunctions such as insomnia, excessive sleeping, body aches, listlessness, and irritable bowel syndrome. The World Health Organization has projected the depression to be the second leading cause of disability worldwide by 2020. The physical and mental ill effects of somatic depression can be addressed using the osteopathic manipulative treatment. Therefore, the purpose of the present case report is to explore the effect of myofascial release (MFR) technique and myofascial unwinding (MFU) in the somatic depression. We reported a case of a 39-year-old female diagnosed as dysthymia with moderate depression with somatic symptoms. She was treated with MFR and MFU for 4 weeks. Depression was scored using Hamilton Depression Rating Scale (HDRS), and quality of life was measured using the Quality of Life Enjoyment and Satisfaction Questionnaire-Short Form (Q-LES-Q-SF). Both were administered preintervention and 6 weeks postintervention. The application of MFR and MFU resulted in the improved scores on both HDRS and Q-LES-Q-SF. The present case positive results have proven the effectiveness of MFR and MFU as an important adjunctive treatment strategy.

Key words: Depression, dysthymia, myofascial release, myofascial unwinding, osteopathy, somatic symptoms

INTRODUCTION

Depression is an aversion to activity disorder which is characterized by low mood, feelings of sadness, loneliness, anxiety, loss of appetite, or overeating;^[1] that could lead to somatic dysfunctions such as insomnia, excessive sleeping, body aches, listlessness, and irritable bowel syndrome.^[2]

Access this article online		
W 1 *4	Quick Response Code	
Website:	C378-08-08-C3	
www.ijpm.info		
	\$500 PM	
DOI:	3532436436	
10.4103/0253-7176.203113		

The management of somatic symptoms is based on psychiatric medications, counseling, multiple behavioral therapy, cognitive behavioral therapy, and osteopathic manipulative treatment (OMT), respectively.^[3] The physical and mental ill effects of somatic depression

This is an open access article distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as the author is credited and the new creations are licensed under the identical terms.

For reprints contact: reprints@medknow.com

How to cite this article: Goyal M, Goyal K, Bathla M, Kanimozhi D, Narkeesh D. Efficacy of myofascial unwinding and myofascial release technique in a patient with somatic symptoms – A case report. Indian J Psychol Med 2017;39:199-201.

M. M. Institute of Physiotherapy and Rehabilitation, ¹Department of Psychiatry, M. M. Institute of Medical Sciences and Research, Mullana, Haryana, ²Department of Physiotherapy, Punjabi University, Patiala, Punjab, India

Address for correspondence: Dr. Manish Bathla

Department of Psychiatry, M. M. Institute of Medical Sciences and Research, Mullana, Haryana, India.

E-mail: mentaldental@rediffmail.com

can be addressed using the OMT, namely, myofascial release (MFR) techniques and somatoemotional release technique called fascial unwinding.^[4]

MFR is the application of a low load, long duration stretch to the myofascial complex, intended to restore optimal length, decrease pain, and improve function.^[5]

Myofascial unwinding (MFU) also called as indirect MFR technique is defined as "a manual technique involving constant feedback to the osteopathic practitioner who is passively moving a portion of the patient's body in response to the sensation of movement. Its forces are localized using the sensations of ease and bind over wider regions." [6]

"The psychobehavioral model of OMT seeks to influence mental and emotional conditions, particularly stress and anxiety, by targeting associated anatomical locations." [7] Therefore, the purpose of the present case report is to explore the effect of MFR and MFU in the somatic depression.

Depression was scored using Hamilton Depression Rating Scale (HDRS). The quality of life was measured using the Quality of Life Enjoyment and Satisfaction Questionnaire-Short Form (Q-LES-Q-SF). The quality of life score in percentage was measured using the formula:^[8]

Raw total score = minimum score/maximum possible raw score - minimum score (where minimum score is 14, and the maximum score is 70).

CASE REPORT

A 39-year-old homemaker presented with the complaint of low mood, loss of interest in daily activities, palpitations, fatigability, decrease appetite, middle insomnia, body aches, and listlessness for the last 3 years. She reported worsening of symptoms for the last 2 months.

The patient had no significant medical and surgical history.

She had been previously treated with mirtazapine 15 mg/day, clonazepam 0.25 mg/day, proton pump inhibitors, and nonsteroidal anti-inflammatory drugs but without any persistent relief.

Routine blood investigations were normal within normal range.

Diagnosis

Dysthymia; moderate depression with somatic symptoms.

Treatment

The patient was prescribed tablet opipramol 100 mg BD for 15 days along with tablet etizolam 0.5 mg thrice in a day. Along with the pharmacotherapy, the patient also underwent osteopathic assessment and treatment. Tablet opipramol was tapered to 50 mg BD, and tablet etizolam was tapered to 0.5 mg BD.

Osteopathic palpatory examination demonstrated restricted motion at the sacral base, lambdoidal and sagittal sutures, dural mobility, and asymmetrical and reduced diaphragmatic motion in the hypogastric and epigastric regions, respectively. The restricted range of motion and tenderness were also present in the anterior chest and neck.

Osteopathic treatment

The clinical examination based osteopathic treatment was provided to the patient for 20 min 3 times/week on alternate basis for 4 weeks (total, 12 sessions). The patient underwent osteopathic manipulative approach, consisting of all the major diaphragms' release, namely, pelvic diaphragm, abdominal diaphragm, thoracic outlet release, and hyoid diaphragm release along with anterior cervical fascia release, occipitoatlantal release, and sacral release. The dural tube rocking was incorporated to influence the craniosacral mobility. The somatoemotional component was targeted using the MFU by lifting and holding the patient's head to remove the influence of the gravity and move into the direction of ease.

The remarkable change in the patient variable was noticed after the completion of the treatment sessions [Table 1].

The follow-up at 6 weeks interval showed improvement in both the quality of life and also the HDRS score. The pharmacological treatment prescribed at 6 weeks follow-up: Tablet opipramol was tapered to 50 mg BD and tablet etizolam 0.5 mg on s.o.s basis.

DISCUSSION

The findings procured from the present case report significantly improved the Q-LES-Q-SF and HDRS score as evident from Table 1, with the use of MFR and MFU as an adjunct to pharmacotherapy. This may be attributed to the release of the fascial restrictions both at the physical and emotional levels, respectively.

Table 1: Pre-treatment and Post-treatment Score of Q-LES-Q-SF and HDRS

Variable	Prescore (baseline)	Postscore (after 6 weeks)
Quality of Life Enjoyment and Satisfaction	55	30
Questionnaire-Short Form (%)		
Hamilton Depression Rating Scale	22	12

MFR is an effective treatment to relax the fascia throughout the whole body, which leads to decrease in pain, improve range of motion, better posture, reduced symptoms, and improved quality of life. [9] Alteration in the adrenocorticotropic and decrease in the serotonin levels indicating the neurohormonal axis changes leading to decreased sleep and sadness has been reported in the patients with somatic depression. [10,11] MFR at the pelvic diaphragm level may induce sleep by improving the serotonin secretions by platelets. Anxiety and stress levels hamper the mechanical properties of the fascial tissue by affecting the proteoglycans synthesis and metabolism, leading to the formulation of the fascial entrapment areas and hence, the painful points emergence. [12]

MFU mechanism is built on the theories of neurobiologic,[13,14] ideomotor functions,[15] and consciousness.[16] "In bodywork literature, it is generally accepted that fascia or connective tissues can hold onto memories and trauma."[17] "Ideomotor actions are unconscious, involuntary movements that are performed by a person and that may be caused by prior expectations, suggestions, or preconceptions."[4] Ideomotor action leads to improvement in the pain intensity and disability due to suppressed instinctive responses in the patients as hypothesized by McCarthy et al.[18] MFR stimulates the intrafascial mechanoreceptors whose signals are processed by the central nervous system and the autonomic nervous system, thus triggering the unwinding process. MFU as per the neurobiologic theory stimulates the parasympathetic nervous system and leads to the release of tissue emotions.[19]

CONCLUSION

This study suggests that MFR and MFU methods provide relief from the somatic symptoms and could be important therapeutic tools to lessen the impact of the disease and to thus improve the quality of life. MFR and MFU osteopathic techniques can be considered as a complementary therapy in addition to the pharmacotherapy and other adjunct therapies in the treatment of somatic symptoms.

Financial support and sponsorship Nil.

Conflicts of interest

There are no conflicts of interest.

REFERENCES

- Zimmerman M, Chelminski I, Posternak M. A review of studies of the Hamilton Depression Rating Scale in healthy controls: Implications for the definition of remission in treatment studies of depression. J Nerv Ment Dis 2004;192:595-601.
- Kapfhammer HP. Somatic symptoms in depression. Dialogues Clin Neurosci 2006:8:227-39.
- Smith RC, Lein C, Collins C, Lyles JS, Given B, Dwamena FC, et al. Treating patients with medically unexplained symptoms in primary care. J Gen Intern Med 2003;18:478-89.
- Minasny B. Understanding the process of fascial unwinding. Int J Ther Massage Bodywork 2009;2:10-7.
- Barnes JF. Myofascial release: The Search for Excellence. 10th ed. Paoli, PA: Rehabilitation Services Inc.; 1990.
- American Association of Colleges of Osteopathic Medicine (AACOM). Educational council on osteopathic principles. Glossary of osteopathic terminology usage guide. Chevy Chase, Maryland: AACOM; 2006.
- Wiegand S, Bianchi W, Quinn TA, Best M, Fotopoulos T.
 Osteopathic manipulative treatment for self-reported fatigue, stress, and depression in first-year osteopathic medical students. J Am Osteopath Assoc 2015;115:84-93.
- 8. Endicott J, Nee J, Harrison W, Blumenthal R. Quality of life enjoyment and satisfaction questionnaire: A new measure. Psychopharmacol Bull 1993;29:321-6.
- Altindag O, Ozaslan S. Efficacy of myofascial release method on pain and disease severity in patients with fibromyalgia. J Pain Relief 2014;3:5.
- Hamilton NA, Affleck G, Tennen H, Karlson C, Luxton D, Preacher KJ, et al. Fibromyalgia: The role of sleep in affect and in negative event reactivity and recovery. Health Psychol 2008;27:490-7.
- 11. Bradley LA. Pathophysiologic mechanisms of fibromyalgia and its related disorders. J Clin Psychiatry 2008;69 Suppl 2:6-13.
- Raj K, Chandra TS, Stanley MA. The enteric nervous system. N Engl J Med 1996;43:1106-15.
- 13. Schleip R. Fascial plasticity: A new neurobiological explanation. Part 1. J Bodyw Mov Ther 2003;7:11-9.
- Schleip R. Fascial plasticity: A new neurobiological explanation. Part 2. J Bodyw Mov Ther 2003;7:104-16.
- 15. Dorko BL. The analgesia of movement: Ideomotor activity and manual care. J Osteopath Med 2003;6:93-5.
- Halligan PW, Oakley DA. Greatest myth of all. New Sci 2000;168:35-9.
- Oschman JL. Trauma energetics. J Bodyw Mov Ther 2006;10:21-34.
- McCarthy S, Rickards LD, Lucas N. Using the concept of ideomotor therapy in the treatment of a patient with chronic neck pain: A single system research design. Int J Osteopath Med 2007;10:104-12.
- Henley CE, Ivins D, Mills M, Wen FK, Benjamin BA.
 Osteopathic manipulative treatment and its relationship
 to autonomic nervous system activity as demonstrated by
 heart rate variability: A repeated measures study. Osteopath
 Med Prim Care 2008;2:7.